EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("6318342").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/31 14:11
S2	17	("3194162" | "3589345" | "4502438" | "4798188" | "5111699" | "5127378" | "5479902" | "6148842" | "6155212").PN. OR ("6318342").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 07:11
S3	1	("4566316").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/31 14:37
S4	15	("3151258" | "3566163" | "3614488" | "4088015" | "4483181").PN. OR ("4566316"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 14:39
S5	20	("3151258").URPN.	USPAT	OR	ON	2006/12/31 15:23
S6	54	("2728868" | "2808524" | "2963911" | "3060333" | "3075098" | "3104334" | "3151258" | "3158762" | "3158763" | "3269175" | "3311873" | "3320580" | "3349259").PN. OR ("3566163"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 15:28
S7	14	("2773388" | "3505862" | "4566316" | "4602506" | "4686861").PN. OR ("4898024"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 15:40
S8	21	("3939703" | "4153019" | "4408483" | "4491010" | "4524625" | "4559821" | "4566316" | "4601197" | "4602506").PN. OR ("4969352").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 16:03
S9	34	("2879450" | "4106447" | "4138783" | "4161665" | "4408496" | "4463610" | "4602506" | "4736620" | "4823621" | "4909071" | "4969352" | "5101659" | "5142914" | "5165284" | "5180983" | "5269178" | "5303595" | "5315875" | "5323643" | "5479817").PN. OR ("5672812"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 16:13
S10	21	("2068744" | "4483181" | "4570097" | "4601196" | "4602506" | "4660409" | "4964294" | "4969352" | "5142914" | "5195365").PN. OR ("5329809"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 16:21

S11	2	(injector with sleeve with sensor).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 16:21
S12	27	("4036050" | "4232545" | "4337648" | "4359893" | "4429570" | "4441021" | "4444049" | "4452072" | "4461170" | "4463729" | "4493208" | "4545238" | "4643022" | "4648266" | "4665740" | "4802369" | "4825689" | "4887574" | "4919099" | "4987771" | "5099683" | "5103789" | "5194813").PN. OR ("5834629").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 16:24
S13	8	("3371525" | "3874225").PN. OR ("4036050").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 16:38
S14	15	("2773388" | "3505862").PN. OR ("4602506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:04
S15	21	("2068744" | "4483181" | "4570097" | "4601196" | "4602506" | "4660409" | "4964294" | "4969352" | "5142914" | "5195365").PN. OR ("5329809").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:14
S16	1415	(sleeve with sensor).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:18
S17	9	(spark with sleeve with sensor).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:18
S18	14	("2773388" | "3505862" | "4566316" | "4602506" | "4686861").PN. OR ("4898024").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:25
S19	40	("2873341" | "3201977" | "3365689" | "3599479" | "3695096" | "3724575" | "4203318" | "4283941" | "4326423" | "4364280" | "4416163" | "4453422" | "4483181" | "4566316" | "4646563" | "4753109" | "4766655" | "4775816" | "4898024" | "4909071" | "4969352" | "4969353" | "5095741" | "5142914" | "5187985" | "5323643" | "5419199" | "5581019").PN. OR ("5712424").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:33

EAST Search History

S20	1	("6318342").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/31 17:33
S21	17	("3194162" | "3589345" | "4502438" | "4798188" | "5111699" | "5127378" | "5479902" | "6148842" | "6155212").PN. OR ("6318342").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:34
S22	8	("4438496" | "5671715" | "5722373" | "6213093" | "6253736" | "6318342").PN. OR ("6598591"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:49
S23	1	("5712424").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/31 17:49
S24	40	("2873341" | "3201977" | "3365689" | "3599479" | "3695096" | "3724575" | "4203318" | "4283941" | "4326423" | "4364280" | "4416163" | "4453422" | "4483181" | "4566316" | "4646563" | "4753109" | "4766655" | "4775816" | "4898024" | "4909071" | "4969352" | "4969353" | "5095741" | "5142914" | "5187985" | "5323643" | "5419199" | "5581019").PN. OR ("5712424"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:50

S25	72	(US-20040045345-$).did. or (US-6318342-$ or US-6598591-$ or US-5111699-$ or US-4566316-$ or US-6453732-$ or US-5712424-$ or US-5479817-$ or US-4996873-$ or US-4969352-$ or US-4898024-$ or US-4686861-$ or US-4483181-$ or US-4088015-$ or US-3614488-$ or US-3566163-$ or US-3151258-$ or US-5380014-$ or US-5230238-$ or US-5222399-$ or US-3736394-$ or US-6041656-$ or US-4974454-$ or US-4835436-$ or US-4767960-$ or US-4645965-$ or US-4620438-$). did. or (US-7107819-$ or US-6134947-$ or US-5323643-$ or US-5313849-$ or US-4602506-$ or US-3505862-$ or US-7117726-$ or US-6752005-$ or US-6406307-$ or US-6106327-$ or US-5823802-$ or US-5747677-$ or US-5672812-$ or US-5367904-$ or US-5329809-$ or US-4524625-$ or US-4491010-$ or US-6834538-$ or US-6799451-$ or US-6675785-$ or US-6668632-$ or US-6119667-$ or US-5315875-$ or US-5101659-$ or US-4909071-$ or US-2879450-$ or US-2068744-$). did. or (US-5834629-$ or US-5099683-$ or US-4887574-$ or US-4825689-$ or US-4802369-$ or US-4461170-$ or US-4452072-$ or US-4359893-$ or US-4036050-$ or US-3874225-$ or US-3371525-$ or US-5803419-$ or US-5726351-$ or US-6679100-$ or US-5142914-$ or US-4969353-$ or US-4775816-$). did. or (US-3505862-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:53
S26	27	S25 and sleeve	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 17:53
S27	22	("1580786" | "2328289" | "2342616" | "2618963" | "3029630").PN. OR ("3874225"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/31 18:03
S28	0	73/119.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:09
S29	746	73/119a.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:10

S30	886387	inject$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:10
S31	648	S29 and S30	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:12
S32	1114496	sleeve nozzle	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:12
S33	334	S31 and S32	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:15
S34	173412	pressure near5 (detect$3 sens$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:15
S35	127	S33 and S34	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:52
S36	6	("4109518" | "4130013").PN. OR ("4227403").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/01 11:22
S37	1	("5712424").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/01 11:52
S38	0	("bushingsleeve").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/01 12:51
S39	1184559	bushing sleeve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 12:52
S40	143556	injector	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 12:52
S41	2471488	coat$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 12:52
S42	2628439	protect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 12:53

S43	0	S40 with S39 with S41 near5 S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 12:53
S44	0	S40 with S39 with S41 with S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 12:55
S45	1054	S39 with S41 near4 S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 12:55
S46	14	S40 and S39 with S41 with S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 13:07
S47	5346834	sens$3 detect$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 13:08
S48	8	(S47 with S39 with S40).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 13:13
S49	47	(S47 with S39 with S40)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/01/01 13:13
S50	1	("4566316").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/04 09:30
S51	15	("3151258" | "3566163" | "3614488" | "4088015" | "4483181").PN. OR ("4566316"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:31
S52	8	("4566316" | "4686861").PN. OR ("4996873").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:42
S53	14	("2773388" | "3505862" | "4566316" | "4602506" | "4686861").PN. OR ("4898024"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:44

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S54	76	(US-20040045345-$).did. or (US-4036050-$ or US-4491010-$ or US-4524625-$ or US-5329809-$ or US-5367904-$ or US-5672812-$ or US-5747677-$ or US-5823802-$ or US-6106327-$ or US-6406307-$ or US-6752005-$ or US-7117726-$ or US-3505862-$ or US-5313849-$ or US-5323643-$ or US-6134947-$ or US-7107819-$ or US-6799451-$ or US-4909071-$ or US-6675785-$ or US-5101659-$ or US-3371525-$ or US-5099683-$ or US-6119667-$ or US-5803419-$ or US-4887574-$). did. or (US-4825689-$ or US-4461170-$ or US-4452072-$ or US-5834629-$ or US-4969353-$ or US-4775816-$ or US-5142914-$ or US-4802369-$ or US-6668632-$ or US-4109518-$ or US-6679100-$ or US-2068744-$ or US-5726351-$ or US-5315875-$ or US-3874225-$ or US-3736394-$ or US-4620438-$ or US-4645965-$ or US-4767960-$ or US-4835436-$ or US-4974454-$ or US-2879450-$ or US-4969352-$ or US-4996873-$ or US-4566316-$ or US-6318342-$ or US-5111699-$). did. or (US-6598591-$ or US-6041656-$ or US-5222399-$ or US-5230238-$ or US-5380014-$ or US-6834538-$ or US-4602506-$ or US-4227403-$ or US-3151258-$ or US-3566163-$ or US-3614488-$ or US-4088015-$ or US-4483181-$ or US-4686861-$ or US-4898024-$ or US-5479817-$ or US-5712424-$ or US-4359893-$ or US-6453732-$ or US-5955826-$ or US-5659132-$). did. or (US-3505862-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:47
S55	135064	inject$3 with pressure	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:47
S56	18	S54 and S55	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:48
S57	15	("3561831" | "3603152" | "3942049" | "4146875" | "4192179" | "4214484" | "4217781" | "4391147" | "4404854").PN. OR ("4775816").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:56

S58	1	("5329809").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/04 09:56
S59	21	("2068744" | "4483181" | "4570097" | "4601196" | "4602506" | "4660409" | "4964294" | "4969352" | "5142914" | "5195365").PN. OR ("5329809"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:56
S60	13	("4869095" | "4966031" | "5125263" | "5150606" | "5329809" | "5398540" | "5440933").PN. OR ("5739418").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 10:12
S61	9	S60 and inject$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 10:12

S62	88	(US-20040045345-$).did. or (US-6598591-$ or US-5111699-$ or US-6318342-$ or US-4566316-$ or US-5479817-$ or US-6453732-$ or US-5712424-$ or US-4969352-$ or US-4996873-$ or US-4898024-$ or US-4686861-$ or US-3614488-$ or US-4483181-$ or US-4088015-$ or US-3566163-$ or US-5230238-$ or US-3151258-$ or US-5380014-$ or US-5222399-$ or US-3736394-$ or US-6041656-$ or US-4974454-$ or US-4835436-$ or US-4620438-$ or US-4767960-$ or US-4645965-$). did. or (US-7107819-$ or US-5323643-$ or US-3505862-$ or US-6134947-$ or US-5313849-$ or US-4602506-$ or US-7117726-$ or US-6752005-$ or US-6406307-$ or US-5747677-$ or US-5672812-$ or US-6106327-$ or US-5329809-$ or US-4524625-$ or US-5823802-$ or US-4491010-$ or US-5367904-$ or US-6834538-$ or US-6799451-$ or US-6679100-$ or US-6675785-$ or US-6668632-$ or US-6119667-$ or US-5315875-$ or US-5142914-$ or US-4909071-$ or US-2879450-$). did. or (US-5739418-$ or US-5101659-$ or US-5099683-$ or US-4887574-$ or US-4825689-$ or US-4802369-$ or US-4461170-$ or US-2068744-$ or US-4359893-$ or US-4036050-$ or US-5834629-$ or US-3874225-$ or US-3371525-$ or US-5803419-$ or US-4452072-$ or US-5726351-$ or US-4227403-$ or US-4109518-$ or US-6739182-$ or US-6647760-$ or US-6532795-$ or US-6247351-$ or US-6220078-$ or US-5398540-$ or US-4969353-$ or US-4775816-$ or US-5659132-$). did. or (US-5440933-$ or US-5125263-$ or US-6866204-$ or US-5955826-$ or US-4966031-$ or US-4869095-$).did. or (US-3505862-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 15:13
S63	7	friction and S62	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 15:47
S64	862547	sleeve bushing	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 15:48

S65	5063704	coat$3 layer$2 surface finish film	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 15:53
S66	3397432	reduce minimize diminish decrease	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 15:54
S67	76308	S66 near5 friction	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 15:54
S68	856	S64 with S65 with S67	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:01
S69	53	(S64 with S65 with S67).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:12
S70	148540	"123"/$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:12
S71	153132	S70 and7	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:12
S72	21	S70 and S68	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:26
S73	262848	lubricat$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:27
S74	4166	S64 with S65 with S73	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:29
S75	217	S74 and S70	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:35
S76	51	friction adj reducing adj surface adj coating	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 16:58
S77	3	S64 with S76	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 17:04
S78	74105	surface adj coating	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 17:05
S79	18	S64 adj S78	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 17:05

S80	164	277/415.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 07:12
S81	49562	"277"/$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 07:13
S82	196	S81 and sleeve.ti.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 09:33
S83	0	239/337.5.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 09:33
S84	235	239/397.5.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 09:46
S85	385	73/754.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 09:56
S86	11058	sleeve with (translation actuation)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 09:56
S87	0	S85 and S86	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 09:56
S88	696	123/470.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 09:57
S89	15	("4245589" | "4742964" | "4877187" | "5161379" | "5384200" | "5400969" | "5941459" | "5943994" | "5967419" | "5987882" | "6009856" | "6186419" | "6196195" | "6276338" | "6427667").PN. OR ("7070126"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 10:14
S90	50	S88 and pressure adj (sens$2 detect$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 10:16
S91	9	S88 and (pressure adj (sens$2 detect$3)).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/05 10:16